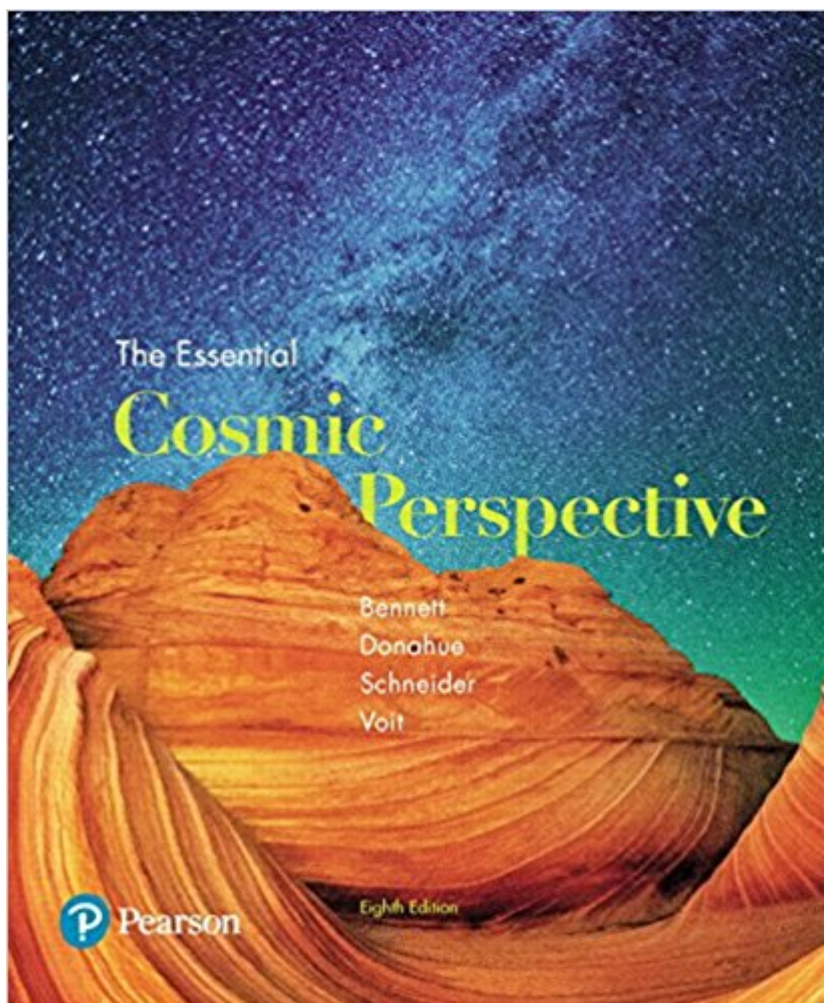


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The Essential Cosmic Perspective (8th Edition)



Synopsis

For one-semester courses in astronomy. **A Practical Introduction to Astronomy with an emphasis on critical thinking about our place in the universe** This 8th Edition of **Essential Cosmic Perspective** provides readers without science backgrounds with a streamlined, cutting-edge introduction to astronomy. Built on a strong tradition of effective pedagogy and coverage, the text focuses on skill-building and includes group work exercises that require active participation. Dedicated to bringing an understanding of the universe, its scientific basis and its relevance to our lives, each chapter is written to specific learning goals that build an ideal learning path for readers. Aiming to foster a lifelong learning experience, the authors focus on key concepts, providing big picture context, promoting conceptual understanding, and preferring plain language to jargon. **The 8th Edition** incorporates the latest scientific updates in the field of astronomy and includes new features that reinforce critical thinking and excite readers's curiosity. New features such as **Extraordinary Claims** engage readers by presenting extraordinary claims about the universe and how they were either supported or debunked as scientists collected more evidence, reinforcing the process of science and how scientists think critically to evaluate them. **My Cosmic Perspective** establishes a personal connection between readers and the cosmos as they learn to think critically about the meaning of what they learn in their astronomy studies and beyond. Designed and written for a one semester course, this text shares many of the strengths of its more comprehensive best-selling sibling, **The Cosmic Perspective**. Also available with **Mastering Astronomy** **Mastering Astronomy** is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students with vetted, interactive content. Instructors ensure students arrive ready to learn by assigning new **Interactive Prelecture** videos that give students exposure to key concepts before class and open classroom time for active learning or deeper discussions of topics. With **Learning Catalytics** instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups. Students further master concepts through book-specific **Mastering Astronomy** assignments, which provide hints and answer-specific feedback that build problem-solving skills. **Mastering Astronomy** now features **Virtual Astronomy Labs**, providing assignable online laboratory activities that use **Stellarium** and **Interactive Figures**. **Note:** You are purchasing a standalone product; **Mastering Astronomy** does not come packaged with this content. Students, if interested in purchasing this title with **Mastering Astronomy**, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. **If you would like to**

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Jeffrey Bennett holds a B.A. (1981) in biophysics from the University of California, San Diego, and an M.S. and Ph.D. (1987) in astrophysics from the University of Colorado, Boulder. He has taught at every level from preschool through graduate school, including more than 50 college classes in astronomy, physics, mathematics, and education. He served 2 years as a visiting senior scientist at NASA headquarters, where he created NASA's "IDEAS" program, started a program to fly teachers aboard NASA's airborne observatories (including the recently launched SOFIA observatory), and worked on numerous educational programs for the Hubble Space Telescope and other space science missions. He also proposed the idea for and helped develop both the Colorado Scale Model Solar System on the CU-Boulder campus and the Voyage Scale Model Solar System on the National Mall in Washington, D.C. (He is pictured here with the model Sun.) In addition to this astronomy textbook, he has written college-level textbooks in astrobiology, mathematics, and

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Ã Å Megan DonahueÃ Å is a professor in the Department of Physics and Astronomy at Michigan State University and President of the American Astronomical Society.Ã Å Her current research is mainly on clusters of galaxies: their contents-dark matter, hot gas, galaxies, active galactic nuclei-and what they reveal about the contents of the universe and how galaxies form and evolve. She grew up on a farm in Nebraska and received a B.A. in physics from MIT, where she began her research career as an X-ray astronomer. She has a Ph.D. in astrophysics from the University of Colorado, for a thesis on theory and optical observations of intergalactic and intracluster gas. That thesis won the 1993 Trumpler Award from the Astronomical Society for the Pacific for an outstanding astrophysics doctoral dissertation in North America. She continued postdoctoral research in optical and X-ray observations as a Carnegie Fellow at Carnegie Observatories in Pasadena, California, and later as an STScl Institute Fellow at Space Telescope. Megan was a staff astronomer at the Space Telescope Science Institute until 2003, when she joined the MSU faculty. Megan is married to Mark Voit, and they collaborate on many projects, including this textbook and the raising of their children, Michaela, Sebastian, and Angela. Between the births of Sebastian and Angela, Megan qualified for and ran the Boston Marathon. These days, Megan runs, orienteers, and plays piano and bass guitar whenever her children allow it.

Ã Å Nicholas Schneider is an associate professor in the Department of Astrophysical and Planetary Sciences at the University of Colorado and a researcher in the Laboratory for Atmospheric and Space Physics. He received his B.A. in physics and astronomy from Dartmouth College in 1979 and his Ph.D. in planetary science from the University of Arizona in 1988. In 1991, he received the National Science Foundation's Presidential Young Investigator Award. His research interests include planetary atmospheres and planetary astronomy, with a focus on the odd case of Jupiter's moon Io. He enjoys teaching at all levels and is active in efforts to improve undergraduate astronomy education. Off the job, he enjoys exploring the outdoors with his family and figuring out how things work.

Ã Å Mark Voit is a professor in the Department of Physics and Astronomy at Michigan State University. He earned his B.A. in astrophysical sciences at Princeton University and his Ph.D. in astrophysics at the University of Colorado in 1990. He continued his studies at the California Institute of Technology, where he was a

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